Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- (Currently amended) A joy-dial for providing input signals to a device, said joy-dial having comprising:
 - a first and a second x-axis input;
 - a first and a second y-axis input;
 - a first and a second directional input;
 - a joy pad;
 - an elastically deformable diaphragm located below the joy pad corresponding to each of the x-axis and y-axis inputs; and
 - a contact located below and associated with each of the diaphragms arranged so that pressure applied to the joy pad at one of the x-axis or y-axis inputs results in deformation of the corresponding diaphragm and closure of the associated contact.
 - wherein said first and second directional inputs being operable by rotating applying the joy pad in a respective clockwise first and anti-clockwise second rotational movement to the joy paddirection about a z-axis.
- 2. (Previously amended) A joy-dial according to claim 1, further comprising at least one diagonal input.
- 3. (Previously amended) A joy-dial according to claim 2 wherein the at least one diagonal input having a corresponding diagonal input position defined between one of the first y-axis and the second x-axis input, the second xaxis input the second y-axis input, the second y-axis input and the first xaxis input and the first x-axis input and the first y-axis input.

- 4. (Previously amended) A joy-dial according to claim 3 wherein pressure applied to the corresponding diagonal input position on the joy pad results in deformation of the associated diaphragms of the adjacent x-axis and y-axis inputs and closure of their associated contacts.
- 5. (Cancelled)
- 6. (Cancelled)
- 7. (Currently amended) A joy-dial according to claim 1 further comprising:

a first and a second directional contact located below the joy pad and between the contacts associated with the x-axis and the y-axis inputs;

an engagement means <u>located below the joy pad and fixedly attached</u> to the underside thereof, which wherein is engaged during rotation of the joy pad, the engagement means and is arranged to push against a biasing means so as to <u>close the first and second directional contacts</u> operate the first and second directional inputs.

- 8. (Original) A joy-dial according to claim 7 wherein the biasing means restores the joy pad to a home position in which none of the contacts are closed once pressure applied by the user is removed.
- 9. (Cancelled)
- 10. (Currently amended) A joy-dial according to claim 1 wherein the joy pad can be rotated substantially 45° in either athe clockwise or anti-clockwise direction about athe z-axis.
- 11. (Previously amended) A joy-dial according to claim 1 further comprising a base arranged for attachment to an information device or to a printed circuit board of a device and a cage means arranged to be connected to said base and to locate the joy pad there between.

- 12. (Currently amended) A joy-dial according to claim 11 wherein thea biasing means is located between the joy pad and an upper surface of the base.
- 13. (Original) A joy-dial according to claim 1 wherein the joy pad is marked to indicate the positioning of the input positions.
- 14. (Original) A joy-dial according to claim 1 wherein the joy pad has an upper surface which is patterned to enhance grip to the joy pad by the user's finger.
- 15. (Original) A joy-dial according to claim 1 wherein the joy pad is mounted for pivotal movement on a pivot means.
- 16. (Original) A joy-dial according to claim 15 wherein the joy pad includes an engaging member on an underside, said engaging member being arranged to engage within a groove formed in an upper surface of said pivot means.
- 17. (Original) A joy-dial according to claim 16 wherein the engaging member is located in a hollow or aperture formed in the underside of the joy pad.
- 18. (Original) A joy-dial according to claim 16 wherein the groove is annular so as to enable the joy pad to turn in a clockwise or anti-clockwise direction.
- 19. (Original) A joy-dial according to claim 1 wherein the joy pad includes at least one thumb rail arranged to aid the user to rotate the joy pad.
- 20. (Currently amended) An information device having at least one joy-dial, said joy-dial being arranged to provide input signals to the device, said joy-dial having comprising:
 - a first and a second x-axis input;
 - a first and a second y-axis input;
 - a first and second directional input;
 - a joy pad;

an elastically deformable diaphragm located below the joy pad corresponding to each of the x-axis and y-axis inputs; and

a contact located below and associated with each of the diaphragms arranged so that pressure applied to the joy pad at one of the x-axis or a y-axis inputs results in deformation of the corresponding diaphragm and closure of the associated contact.

wherein said first and second directional inputs being operable by rotating applying-the joy pad in a respective clockwise first-and anti-clockwise second-rotational movement to the joy paddirection about a z-axis.

- 21. (Previously amended) A device according to claim 20 further comprising a microprocessor or the like which is arranged to detect closure of any of the contacts and to interpret such as a logical state change.
- 22. (Previously amended) A device according to claim 20 further comprising an operating system which is arranged to be informed by the microprocessor of a logical state change and to in turn inform a software application which interprets the information for executing a corresponding or an associated action.
- 23. (new) A joy-dial for providing input signals to a device, said joy-dial comprising:
 - a first and a second x-axis input;
 - a first and a second y-axis input;
 - a first and a second directional input;
 - a central input;
 - a joy pad;
 - an elastically deformable diaphragm located below the joy pad corresponding to each of the x-axis and y-axis inputs; and
 - a contact located below and associated with each of the diaphragms arranged so that pressure applied to the joy pad at one of the x-axis or y-axis inputs results in deformation of the corresponding diaphragm and closure of the associated contact,

wherein said first and second directional inputs being operable by rotating the joy pad in a respective clockwise and anti-clockwise direction about a z-axis, and

wherein pressure applied to the central input on the joy pad results in deformation of all the diaphragms located below the x-axis and y-axis inputs and closures of their associated contacts.